



Program



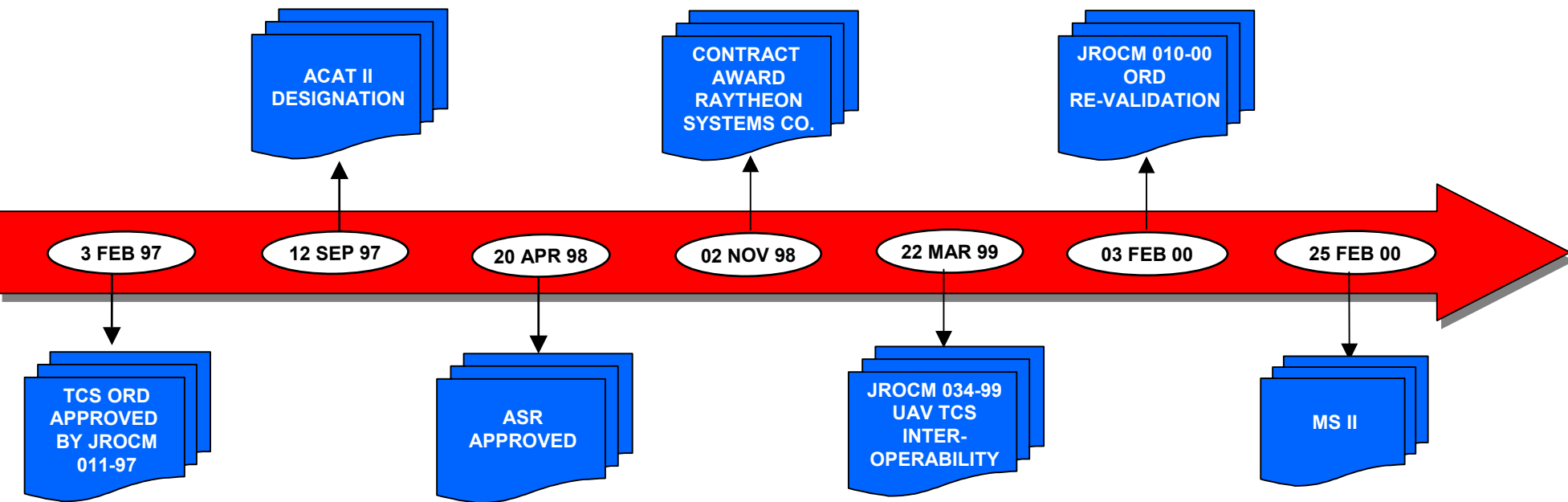
PROGRAM DESCRIPTION

The TCS will provide:

- **Command & Control of Tactical and Medium Altitude Endurance (MAE) UAVs operated by the USAF, USA, USN, USMC**
 - **Direct down-linking of tactical imagery from High Altitude Endurance (HAE) UAVs. (Objective Requirement)**
- **Connectivity with major service C⁴I systems identified in the Operational Requirements Document (ORD).**



PROGRAM PROGRESSION





TCS SERVICE EXECUTION STRATEGY

- **Block 1; Army TUAV (software)**
 - Level V – Auto launch and recovery/TCDL
 - Incorporate Army Block 1 C⁴I Systems
 - TCS Software as integral part of TUAV GCS
 - Execute TCS/TUAV integration and test in parallel with TUAV Program Plan
 - Simultaneous LOS control of 2 air vehicles
 - A Predator Level IV capability (way point/auto pilot)
- **Block 2; Navy/Marine Corps VTUAV (Software & TCS Element hardware)**
 - Level V – TCDL/Auto Launch & Recovery for VTUAV
 - Provide TCS for Navy and Marine Corps VTUAV System
 - Simultaneous LOS control of 2 air vehicles
 - A Predator Level IV capability (way point/auto pilot)
- **Block 2; Air Force predator MAE (software)**
 - Level II (focused on C⁴I connectivity)
 - TCS Software as integral part of Predator workstation ECP





BLOCK 1 TESTS

- **FY-01 Block 1 Version 1 DT event**
 - **Shadow 600 with TUAV avionics**
 - **Secondary- Shadow 200 (if available)**
- **FY-02 Block 1 Version 2 DT event**
 - **Focused on TUAV Block II requirements**
 - **Shadow 200**



BLOCK 3 GOALS

- **Combine Block 1 and Block 2 into single build**
- **Continue modularization of software**
- **Beyond Line of Sight (BLOS)**
- **HAE level II**
- **Plug and Play MMP**
- **Full JTA compliance**
- **Convert DCP to software only**
- **Complete C⁴I Systems**



PROGRAM CUSTOMERS





TCS ORD REQUIREMENTS

KPP

OBJECTIVE

THRESHOLD

**- A/V
Control**

**S/W LEVEL V -
TUAVs**

**IV -
Predator
II - HAE**

**S/W LEVEL V - TUAVs
II - Predator GCS**

Data dissemination C⁴I Nodes

**- A/V
Payload
Control**

**Support simultaneous
flight and payload control
of at least two AVs, BLOS.**

**Support simultaneous flight and
payload control of at least two Avs,
LOS, excluding legacy USAF RQ-1
Predator systems.**

**- C⁴I
Interoperability**

**...and at least two different
platforms and payloads
simultaneously.**

**..... Interoperable with the C⁴I
systems listed in paragraph 5.e.(2) of
this ORD. Not all C⁴I systems required
at IOC. Joint Service priority
promulgated by separate
correspondence.**